

FORM PTO-1390 (REV 10-94)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		01-487 U.S. APPLICATION NO. 09/890,924	
INTERNATIONAL APPLICATION NO. PCT/JP99/06967	INTERNATIONAL FILING DATE December 10, 1999	PRIORITY DATE CLAIMED	
TITLE OF INVENTION VALUABLE PAPER DISTINGUISHABLE BY A VALIDATOR FOR DISCRIMINATING BILLS			
APPLICANT(S) FOR DO/EO/US Hikaru Izawa et al.			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
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Items 11. to 16. below concern document(s) or information included:			
<ol style="list-style-type: none"> <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. <input type="checkbox"/> A substitute specification. <input type="checkbox"/> A change of power of attorney and/or address letter. <input type="checkbox"/> Other items or information: 			

page 1 of 2

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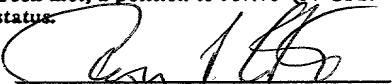
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Annex US.II, page 2

PCT Applicant's Guide - Volume II - National Chapter - US

U.S. APPLICATION NO. (if known, see 37 C.F.R. 1.3) 09/890921	INTERNATIONAL APPLICATION NO. PCT/JP99/06967	ATTORNEY'S DOCKET NUMBER 01-487
17. <input checked="" type="checkbox"/> The following fees are submitted:		CALCULATIONS PTO USE ONLY
BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)): Search Report has been prepared by the EPO or JPO..... \$840.00		
International preliminary examination fee paid to USPTO (37 CFR 1.482) \$660.00		
No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)).. \$730.00		
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CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	11 -20 =	X \$18
Independent claims	1 -3 =	X \$78
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$
TOTAL OF ABOVE CALCULATIONS		\$ 990.00
Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).		\$
SUBTOTAL =		\$ 990.00
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). + \$		
TOTAL NATIONAL FEE =		\$ 990.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$		
TOTAL FEES ENCLOSED =		\$ 990.00
		Amount to be: refunded \$ charged \$
a. <input checked="" type="checkbox"/> A check in the amount of \$ 990.00 to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-0184. A duplicate copy of this sheet is enclosed.		
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.		
 SIGNATURE: Gregory P. LaPointe NAME: 28,395 REGISTRATION NUMBER: _____		
SEND ALL CORRESPONDENCE TO: GREGORY P. LAPONTE BACHMAN & LAPONTE, P.C. 900 CHAPIN ST., SUITE 1201 NEW HAVEN, CT 06510-2802		

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August 7, 2001

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09/890924
JC03 Rec'd PCT/PTC 07 AUG 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Hikaru Izawa et al. Docket No.: 01-487
Serial No.: Examiner :
Filed : Art Unit :
PCT No. : PCT/JP99/06967
IFD : December 10, 1999
For : VALUABLE PAPER DISTINGUISHABLE BY A VALIDATOR FOR
DISCRIMINATING BILLS

Suite 1201
900 Chapel Street
New Haven, CT 06510-2802

PRELIMINARY AMENDMENT

Hon. Commissioner of Patents & Trademarks
United States Patent & Trademark Office
Washington, D.C. 20231

Dear Sir:

In the above-identified application for United States patent,
please amend as follows.

IN THE CLAIMS

Please amend the claims as follows.

7. (Amended) The valuable paper of claim 5, wherein the ink includes vehicle which is one or mixture selected from groups of mineral oil such as gasoline, kerosene, light oil, machine oil, vaseline, paraffin wax; vegetable oil such as drying oil, semi- or non-drying oil, synthetic drying oil; and mixture of mineral oil or vegetable oil with synthetic resin or organic solvent.

8. (Amended) The valuable paper of claim 5, wherein the ink includes vehicle which contains synthetic resin such as ester rubber, denatured phenol resin, denatured alkyd resin, or maleic rosin oxide.

REMARKS

Amendments have been made to the claims to remove the multiple dependencies in order to conform with U.S. practice. An early action on the merits is respectfully requested.

If any fees are required in connection with this case, it is respectfully requested that they be charged to Deposit Account No. 02-0184.

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August 7, 2001
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Name and Reg. No. of Attorney
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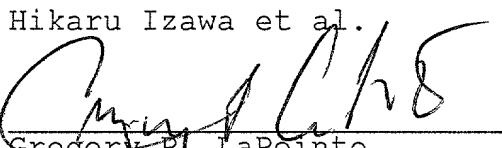
Date: August 7, 2001

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Respectfully submitted,

Hikaru Izawa et al.

By


Gregory P. LaPointe
Attorney for Applicants
Telephone - (203) 777-6628

Version with markings to show changes made to claims

7. (Amended) The valuable paper of claim 5 [or 6], wherein the ink includes vehicle which is one or mixture selected from groups of mineral oil such as gasoline, kerosene, light oil, machine oil, vaseline, paraffin wax; vegetable oil such as drying oil, semi- or non-drying oil, synthetic drying oil; and mixture of mineral oil or vegetable oil with synthetic resin or organic solvent.

8. (Amended) The valuable paper of claim 5 [or 6], wherein the ink includes vehicle which contains synthetic resin such as ester rubber, denatured phenol resin, denatured alkyd resin, or maleic rosin oxide.

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JC03 Rec'd PSTTTC

07 AUG 2001

DESCRIPTION

VALUABLE PAPER DISTINGUISHABLE BY A VALIDATOR FOR DISCRIMINATING BILLS

FIELD OF THE INVENTION

This invention relates to a valuable paper used as token or scrip in gaming or gambling accommodations wherein both of the valuable papers and bills are used and discriminated by a single validator.

BACKGROUND OF THE TECHNOLOGY

In gaming or gambling accommodations, a bill dispenser is connected with a gaming machine to dispense tokens in agreement with an amount of prize money a player wins in a game with the gaming machine. When a player achieves a great victory in the game, the dispenser distributes a large amount of tokens for the player. In this case, an improvement in the gaming machine has been made by dispensing actual bills in lieu of tokens to reduce the number of tokens to be distributed or stored.

In this case, however, a large amount of bills must be reserved and dispensed in stead of tokens equivalent to the prize money under the thorough and strict security protection for safety against theft in the gaming or gambling accommodations, and such security systems are expensive with much labor.

To solve this problem, it would be necessary to use valuable papers in the gaming or gambling accommodations in stead of bills so that the valuable papers can be distributed from dispensers and examined by validators.

Accordingly, an object of the invention is to provide a valuable paper which can be examined by a validator to discriminate bills.

DISCLOSURE OF THE PRESENT INVENTION

A valuable paper according to the present invention comprises on at least a

surface of the paper (50) a characteristic pattern (51) detectable by a sensor means (16) of a validator (10) for discriminating authenticity of a bill inserted into the validator (10). The paper (50) is inserted into the validator (10) to detect the characteristic pattern (51) of the paper (50) by the sensor means (16) for discrimination of the paper (50) by the validator (10).

The characteristic pattern (51) on the valuable paper (50) according to the present invention can be detected by the sensor means (16) to convert it into electric signals to the validator (10) which examines authenticity of the valuable paper (50) to prevent unauthorized use of the paper (50). Also, utilization of the valuable paper (50) can materialize abolishment of a dangerous system for reserving a large amount of bills to be paid to winners in gaming or gambling accommodations so as to facilitate management and control of the accommodations against theft under a strict security protection.

In an embodiment of the instant invention, the bill has at least a distinctive portion detectable by the sensor means (16). The paper (50) has its width (W) substantially same as that of the bill. The characteristic pattern (51) of the paper (50) is formed on the substantially same position in width (W) as that of the distinctive portion in the bill.

The validator (10) comprises an inlet sensor (40) for alternatively detecting the paper (50) or bill inserted into an inlet (13), a conveyor means (15) for alternatively transporting the paper (50) or bill along a passageway (12) in response to an output signal from the inlet sensor (40), and a validator control circuit for validating authenticity of the paper (50) or bill from an output signal of the sensor means (16) to control the conveyor means (15) so that the sensor means (16) detects an optically, magnetically or electrically characteristic pattern (51) and portion of the transported paper (50) or bill.

The characteristic pattern (51) printed on the valuable paper (50) is invisible or is invisibly covered with a mask coating on the valuable paper (50) to effectively prevent forgery of the paper (50). The characteristic pattern (51) is printed with ink being one or more selected from inks that: (a) produces impedance change in a

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magnetic field; (b) produces optical change; (c) includes magnetic material; (d) contains a metallic ingredient for absorbing infrared ray (53); (e) reflects infrared or ultraviolet ray (53); and (f) contains a metallic ingredient or fluorescent material for absorbing ultraviolet ray (53).

The ink may include vehicle which is one or mixture selected from groups of mineral oil such as gasoline, kerosene, light oil, machine oil, vaseline, paraffin wax; vegetable oil such as drying oil, semi- or non-drying oil, synthetic drying oil; and mixture of mineral oil or vegetable oil with synthetic resin or organic solvent. Also, the ink may include vehicle which contains synthetic resin such as ester rubber, denatured phenol resin, denatured alkyd resin or maleic rosin oxide.

The characteristic pattern (51) is printed with the ink including a metallic ingredient selected from the group consisting of iron(Fe), nickel (Ni), aluminum (Al), barium (Ba), lead (Pb) and titan (Ti). The characteristic pattern (51) may indicate at least one of country code, name of gaming or gambling accommodation, value level, starting or stopping information, testing mode and version data.

The above-mentioned as well as other objects of the present invention will become apparent during the course of the following detailed description and appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a cross-sectional view of a validator and a transport means equipped with the validator for discriminating a bill and a valuable paper according to the present invention.

Fig. 2 is a plan view of the validator.

Fig.3 is a cross sectional view of the valuable paper according to the present invention.

Fig. 4 is a cross sectional view of the valuable paper according to the second embodiment of the present invention.

Fig. 5 is a plan view of the valuable paper shown in Fig. 4.

DRAFTING DRAWING

Fig. 6 is a cross-sectional view of the valuable paper according to the third embodiment of the present invention.

Fig. 7 is a cross-sectional view of the valuable paper according to the fourth embodiment of the present invention.

BEST MODE FOR EMBODIMENT OF THE INVENTION

Referring to Fig. 1 to Fig. 7, an embodiment of a valuable paper according to the present invention will be described hereinafter.

Fig. 1 shows a typical embodiment of the present invention applied to a bill validator 10 which includes a casing 11, a conveyer means 15 for transporting the bill or a valuable paper 50 inserted from an inlet 13 provided on a front surface of the validator 10 through a passageway 12 formed in the casing 11 to an outlet 14 formed at an inner end of the passageway 12, and a sensor means 16 disposed adjacent to the passageway 12 for detecting an optically, magnetically or electrically characteristic pattern 51 and portion of the transported bill or valuable paper 50. The sensor means 16 is connected to a validator control circuit (not shown) for receiving output signals of the sensor means 16 to validate authenticity of the bill or valuable paper 50 to control the conveyer motor 38 of the conveyer means 15. As shown in Fig. 1, the casing 11 houses and supports the rollers 17, 18, and sensor means 16 attached in position to the casing 11. The validator control circuit has input terminals each connected to the inlet sensor 40 and sensor means 16.

The sensor means 16 comprises an optical sensor 41 such as a photocoupler and a magnetic sensor 42 such as a magnetic head to optically, magnetically or electrically detect characteristic patterns of the papers and bills and convert them into electric signals to a validator control circuit mounted in the validator 10. The electrically characteristic patterns are indicated by variation in permittivity or electric constant of the papers and bills. Provided in the inlet 13 of a discriminating unit 20 is an inlet sensor 40 which detects insertion of the bill or valuable paper 50 into the

inlet 13 to produce a detection signal to the validator control circuit. An outlet sensor 45 is provided in proximity to the outlet 14 of the passageway 12 to detect the passage of the bill and produce detection signal to the validator control circuit 50. The conveyer means 15 includes a pair of pulleys 21, 22, a belt 23 wound around the pulleys 21, 22, rollers 17, 18 disposed in face of each pulleys 21, 22 and a conveyer motor 38 operatively connected to the pulley 22 to transport the bill or valuable paper 50 from the inlet 13 to the outlet 14 along the passageway 12 in response to the output of the inlet sensor 41.

Connected to the outlet 14 of the discriminating unit 20 is a transport means 24 which carries the bill discharged from the outlet 14 to a stacker 25 as a paper storage area along a carrier passage 26 in alignment with the passageway 12 of the discriminating unit 20. To this end, the transport means 24 comprises transport pulleys 27 to 31 adjacent to the carrier passage 26, and a belt 47 wound around transport pulleys 27 to 31. The upper ends of the three transport pulleys 27 to 29 are nearly disposed on a same horizontal plane to carry a bill along a linear way to the transport pulley 31 which forms a bent portion 26a of the carrier passage 26.

Push rollers 32, 33 are disposed in compressed contact to respectively the transport pulleys 27, 28 to firmly hold the paper between the pulley 27 and roller 32 and between the pulley 28 and roller 33 and move it backward to an outlet 26b connected to an inlet (not shown) of the stacker 25 through the upwardly curved bent portion 26a of the carrier passage 26. The belt 47 is wound around the transport pulley 30 to drive the belt 47 in contact to the transport pulley 31 provided in the opposite side of the carrier passage 26 so that the paper 50 can certainly be conveyed through the bent portion 26a to the outlet 26b. A pinion 35 is secured to an output shaft of a transport motor 34 and is mated with an intermediate gear 36 which is then meshed with a last stage gear 37 to rotate the transport pulley 30 and drive the belt 47 by rotation of the transport pulley 30.

As shown in Fig. 3, the valuable paper 50 according to the present invention

bears a characteristic pattern 51 printed on a surface of the paper 50 in the position where the optical and magnetic sensors 41, 42 of the validator 10 can detect the characteristic pattern 51. The sensors 41, 42 convert it into electric signals when the pattern 51 passes through the optical and magnetic sensors 41, 42 during the transportation by the conveyer means 15 to discriminate the valuable paper 50 by the validator 10. Usually, the valuable papers 50 are used in only a selected or specified gaming or gambling accommodations to enjoy games. The valuable papers 50 include tokens, scrips, substitutes for currency, collateral stocks and collateral bonds. The characteristic pattern 51 shown in Fig. 3 is printed with ink on the valuable paper 50 of paper or synthetic resin sheet. The ink may be one or more selected from inks that (a) produces impedance change in a magnetic field; (b) produces optical change; (c) includes magnetic material; (d) contains a metallic ingredient for absorbing infrared ray (53); (e) reflects infrared or ultraviolet ray (53); and (f) contains a metallic ingredient or fluorescent material for absorbing ultraviolet ray (53). For example, the ink may include a magnetic or ferrous material, a metallic ingredient or fluorescent material for absorbing infrared or ultraviolet ray 53. When the characteristic pattern 51 includes bar code information, it may contain a metallic ingredient for producing impedance change in a magnetic field, magnetic ingredient for producing magnetic change, an ingredient for absorbing infrared or ultraviolet ray 53 and an ingredient for reflecting infrared or ultraviolet ray 53. Visible, infrared and ultraviolet rays 53 can penetrate through and reflects on the paper-made valuable paper 50.

A vehicle of the ink is a mixture of oils selected from mineral oil such as gasoline, kerosene, light oil, machine oil, vaseline, paraffin wax; vegetable oil such as drying oil, semi- or non-drying oil, synthetic drying oil; and mixture of mineral oil or vegetable oil with synthetic resin or organic solvent. The vehicle may contain synthetic resin such as ester rubber, denatured phenol resin, denatured alkyd resin or maleic rosin oxide. The characteristic pattern 51 is printed with ink including a metallic ingredient selected from iron (Fe), nickel (Ni), aluminum (Al), barium (Ba), lead (Pb), and titan (Ti).

In an embodiment shown in Fig. 3, it is necessary to print the characteristic pattern 51 with invisible transparent or semi-transparent ink. As usual printing ink comprises mixture of vehicle and pigment for coloring, a given pattern can be printed without pigment by vehicle inclusive of a transparent or semi-transparent magnetic material or a material for absorbing or reflecting infrared or ultraviolet ray 53. The magnetic material includes vehicle inclusive of a ferrous or nickel ingredient, and the material for absorbing infrared and ultraviolet rays 53 includes vehicle inclusive of a metallic or fluorescent ingredient. The characteristic pattern 51 printed on the valuable paper 50 can represent country code, name of gaming or gambling accommodation, value level, starting or stopping information, testing mode and version data to prevent unauthorized use of the valuable paper by discriminating the characteristic pattern 51 with the validator 10. Also, the invisible characteristic pattern 51 is effective to prevent forgery of the valuable paper 50.

Figs. 4 and 5 show a second embodiment of the valuable paper 50 according to the present invention. The valuable paper 50 comprises on the surface a characteristic pattern 51 which is optically, magnetically or electrically detectable by the sensor means 16 of the validator 10 to discriminate authenticity of bills inserted into the validator 10. Presently circulating bills have distinctive portions optically, magnetically or electrically detectable by the sensor means 16, and this distinctive portion is for example in portrait, watermark, indication of denomination or serial number printed on the bill. Accordingly, the valuable paper 50 should have its width W substantially same as that of the bill to be validated. Also, the characteristic pattern 51 of the paper 50 should be formed on the substantially same position in width W as that of the distinctive portion in the bill. Therefore, the paper 50 can be inserted into the validator 10 to detect the characteristic pattern 51 of the paper 50 by the same sensor means 16 for discrimination of the paper 50 by the validator 10. The sensor means 16 can detect quantity of light penetrating the characteristic pattern 51 which is invisibly covered and concealed with a mask coating 52 printed on the characteristic pattern 51. The mask coating 52 may be formed of ink with pigment for color printing. In another aspect, the coating 52 may be formed

with an ingredient free of impedance change or magnetic change in the magnetic field, or an ingredient permeable by infrared or ultraviolet ray 53. The characteristic pattern 51 can be formed for example in at least one of upper, bottom and central belt areas 54, 55, 56 of the paper 50 in agreement with the distinctive portion in the bill to be validated.

Fig. 6 shows a third embodiment of the valuable paper 50 to detect light quantity of infrared or ultraviolet ray 53 reflected on the characteristic pattern 51 or to detect fluorescence. Fig. 7 indicates a fourth embodiment of the valuable paper to detect light quantity of infrared or ultraviolet ray 53 reflected on the valuable paper 50 inclusive of a infrared or ultraviolet reflective material, however the characteristic pattern 51 is formed with ink of an infrared or ultraviolet absorbent material.

In the present invention, the characteristic pattern 51 and mask coating 52 are not limited to relief printing, and may be applied to various kind of printing such as photoprinting to copy on a surface of the valuable paper 50.

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CLAIMS

1. A valuable paper comprising on at least a surface of the paper, a characteristic pattern detectable by a sensor means of a validator which can discriminate authenticity of a bill inserted into the validator; the bill having at least a distinctive portion detectable by the sensor means; the paper being inserted into the validator to detect the characteristic pattern of the paper by the sensor means for discrimination of the paper by the validator.

2. The valuable paper of claim 1, wherein the paper has its substantially same width as that of the bill; the characteristic pattern of the paper is formed on the substantially same position in width as that of the distinctive portion in the bill.

3. The valuable paper of claim 1, wherein the validator comprises an inlet sensor for alternatively detecting the paper or bill inserted into an inlet, a conveyor means for alternatively transporting the paper or bill along a passageway in response to an output signal from the inlet sensor, and a validator control circuit for validating authenticity of the paper or bill from an output signal of the sensor means to control the conveyor means,

wherein said sensor means detects an optically, magnetically or electrically characteristic portion of the transported paper and bill.

4. The valuable paper of claim 1, wherein the characteristic pattern printed on the valuable paper is invisible.

5. The valuable paper of claim 1, wherein the characteristic pattern is printed with ink being one or more selected from ink materials that:

- (a) produces impedance change in a magnetic field;
- (b) produces optical change;
- (c) includes magnetic material;

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- (d) contains a metallic ingredient for absorbing infrared ray;
- (e) reflects infrared or ultraviolet ray; and
- (f) contains a metallic ingredient or fluorescent material for absorbing ultraviolet ray.

6. The valuable paper of claim 1, wherein the characteristic pattern is invisibly covered with a mask coating on the valuable paper.

7. The valuable paper of claim 5 or 6, wherein the ink includes vehicle which is one or mixture selected from groups of mineral oil such as gasoline, kerosene, light oil, machine oil, vaseline, paraffin wax; vegetable oil such as drying oil, semi- or non-drying oil, synthetic drying oil; and mixture of mineral oil or vegetable oil with synthetic resin or organic solvent.

8. The valuable paper of claim 5 or 6, wherein the ink includes vehicle which contains synthetic resin such as ester rubber, denatured phenol resin, denatured alkyd resin, or maleic rosin oxide.

9. The valuable paper of claim 5, wherein the characteristic pattern is printed with the ink including a metallic ingredient selected from iron(Fe), nickel (Ni), aluminum (Al), barium (Ba), lead (Pb) and titan (Ti).

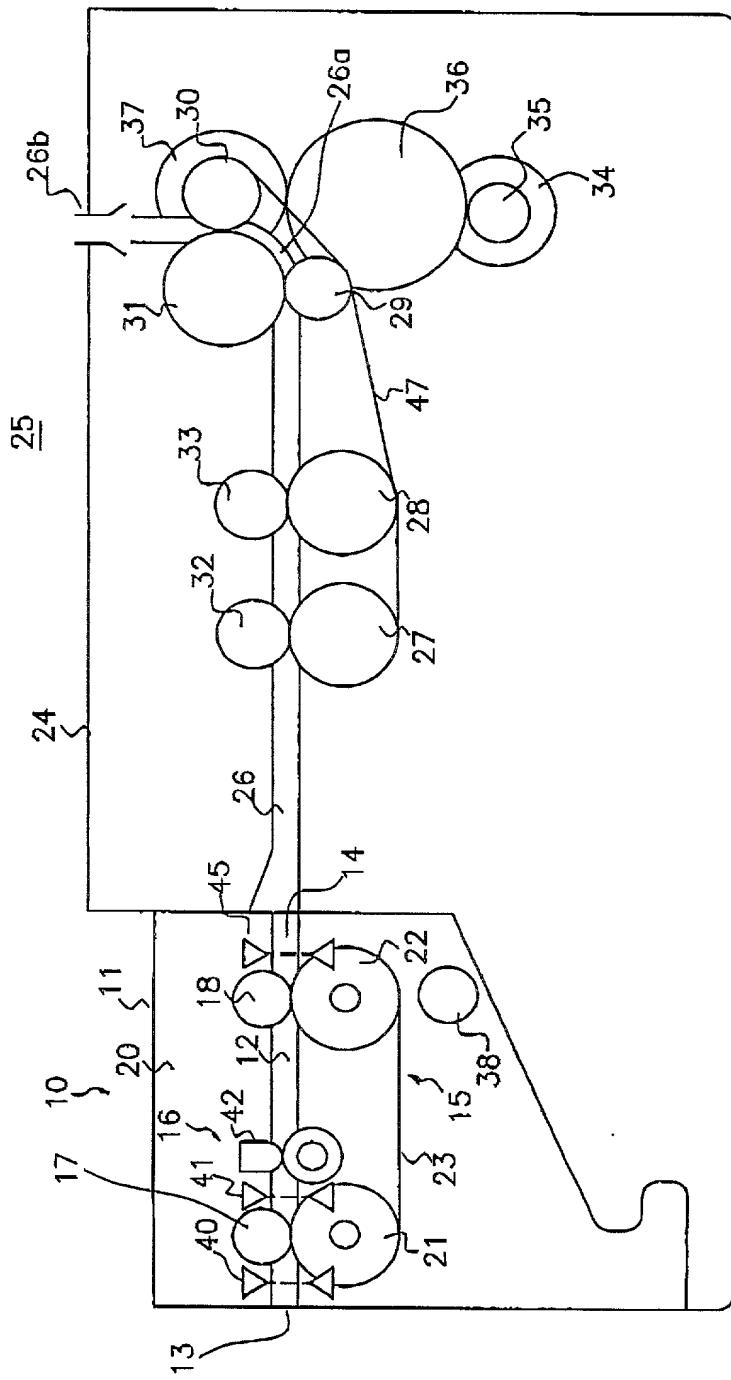
10. The valuable paper of claim 1, wherein the characteristic pattern indicates at least one of country code, name of gaming or gambling accommodation, value level, starting information and stopping information, testing mode and version data.

11. The valuable paper of claim 1 effective in a selected accommodation.

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Fig. 1



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Fig. 2

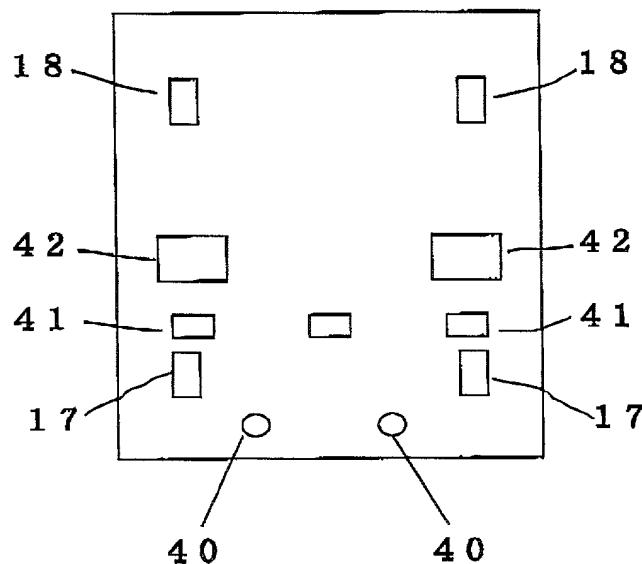


Fig. 3

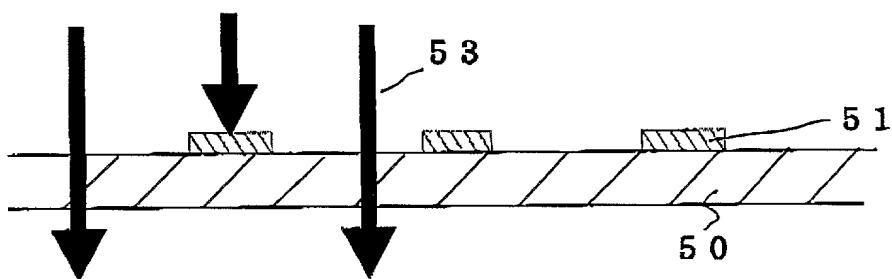
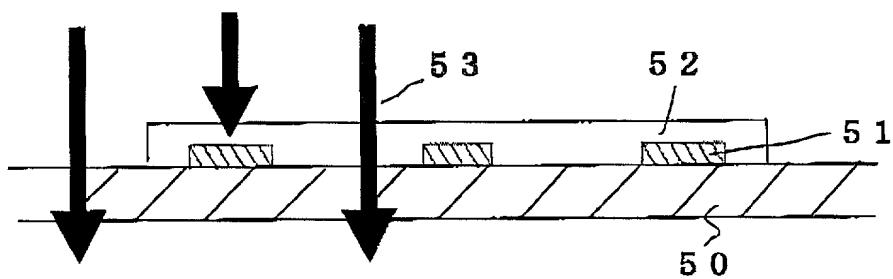


Fig. 4



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Fig. 5

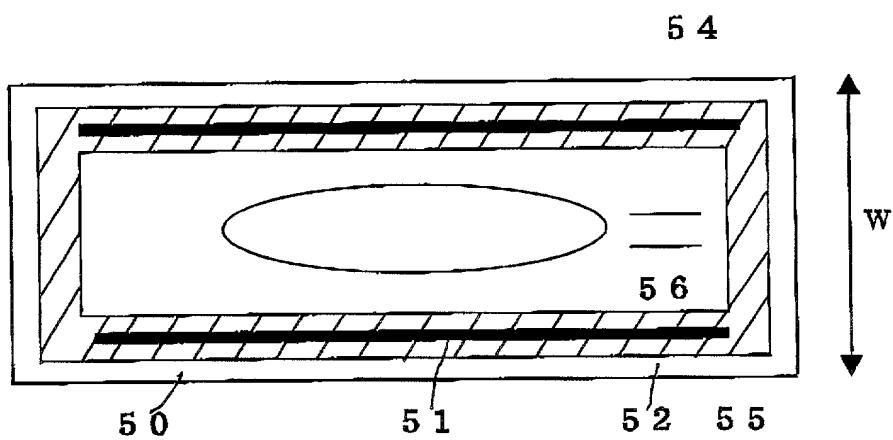


Fig. 6

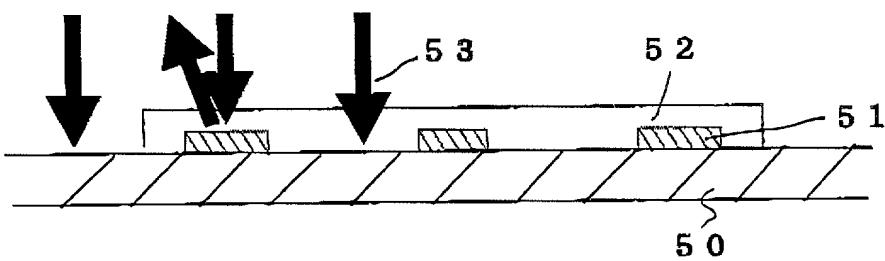
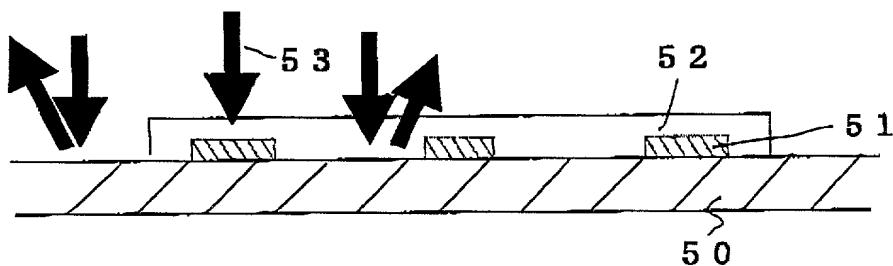


Fig. 7



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100 Full name of sole or first inventor Hikaru Izawa

Inventor's signature Hikaru Izawa Date August 29, 2001

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200 Full name of second joint inventor Masanobu Fujita

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Inventor's signature M. Fujita Date August 29, 2001

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300 Full name of third joint inventor Toitsu Ohya

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of 9-15, Kanumadai 1-chome, Sagamihara-shi, Kanagawa 229-0033 Japan

Full name of fourth joint inventor _____

(if any)

Inventor's signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

Full name of fifth joint inventor _____

(if any)

Inventor's signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the above listed application on which priority is claimed:

Prior Foreign Application(s)

Number	Country	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

If no priority is claimed, I have identified all foreign patent applications filed prior to this application:

Prior Foreign Application(s)

Number	Country	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

And I hereby appoint Robert H. Bachman (19,374), Gregory P. LaPointe (28,395), Richard S. Strickler (18,228) and Barry L. Kelmachter (29,999), all members of the firm of Bachman & LaPointe, P.C., A Professional Corporation.

Gregory P. LaPointe
Telephone: 203-777-6628

my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and direct that all correspondence be forwarded to:

Bachman & LaPointe, P.C.
Suite 1201
900 Chapel Street
New Haven, CT 06510-2802

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor _____

Inventor's signature _____ Date _____

Residence _____

Citizenship _____

Post Office Address _____

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VALUABLE PAPER DISTINGUISHABLE BY A VALIDATOR FOR DISCRIMINATING BILLS

Case No. 01-487, the specification of which

(check one) _____ is attached hereto.
XXX was filed on August 7, 2001 as
 Application Serial No. 09/890,924 (PCT No. PCT/JP99/06967 filed Dec. 10, 1999)
 and was amended on _____
 (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a) and understand that information is material where there is substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent.

I do not know and do not believe this invention was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns, except as identified below:

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below

Prior Foreign Application(s)

Number	Country	Date
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_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____